Montly exam April 2026

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Q. ID: ITISKILL33244K

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Trinity ITI udyavara Udupi

Question Paper

Duration: 120 Mins **Total Marks: 78** **ID: ITISKILL33244K**

Student Name: _____ Roll No: _____

1. Which statement is correct according to ohm's law?

A) I = R/V B) I = R
C) I = 1/V D) I = V/R

2. Which machine converts mechanical energy into electrical energy?

A) Heater B) Battery
C) Iron box D) Generator

3. What is the force with which a body is attracted by the earth towards its centre?

A) Volume B) Density
C) Weight D) Mass

4. What is the length of each part is a copper wire of 225 metre long is cut into 900 equal parts?

A) 0.25 metre B) 0.23 metre
C) 0.29 metre D) 0.28 metre

5. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm³?

A) 19 B) 8
C) 18.5 D) 19.5

6. How many millimetres are there in 1 inch?

A) 24.5 mm B) 2.54 mm
C) 2.45 mm D) 25.4 mm

7. What is the volume (V) of mercury in cm3, if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm³?

A) 73.23 cm³ B) 73.43 cm³
C) 73.33 cm³ D) 73.53 cm³

8. Which is very good conductor?

A) Steel B) Copper
C) Cast iron D) Wrought iron

9. Which is same in series connection of resistors in a circuit?

A) Power B) Current
C) Resistance D) Voltage

10. Which is the unit of current?

A) Watt B) Volt
C) Ohm D) Ampere

11. What is the voltage?
 R = 250 Ohms
 I = 0.44 Amps
 V = _____Volts

A) 105 Volts B) 110 Volts
C) 100 Volts D) 108 Volts

12. What is the unit of intensity of magnetic field?

A) Hertz B) Coloumb
C) wb/m D) m/wb

13. What is the block weighs (W) in kg, if volume (V) is 320 cm3 and density 8.9 g/cm³?

A) 2.848 kg B) 2.948 kg
C) 2.648 kg D) 2.448

14. What does EMF stands for?

A) Electronic Magnetic Force B) Electromated Force
C) Electro Magnetic Force D) Electro Motive Force

15. A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

A) Rs 240 B) Rs 220
C) Rs 260 D) Rs 200

16. Wha is the mass if the density of a body is 7.6 g/cm³ and its volume is 25 cm³?

A) 210 grams B) 200 grams
C) 190 grams D) 220 grams

17. How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

A) 390 volts B) 405 volts
C) 395 volts D) 400 volts

18. What is the formual for induced emf?

A) B²V sinq volts
B) BLV sinq volts
C) B²L sinq volts
D) BL sinq volts

19. What is the length L2, if total length (L) is 2.75 metre and L1:L2 = 2:3?

A) 1.1 metre
B) 1.65 metre
C) 1.25 metre
D) 1.75 metre

20. What is the x value for x² + 62 = 126?

A) 6
B) 8
C) 4
D) 10

21. How much watt second in 1 watt hour?

A) 1000 watt sec
B) 3600 watt sec
C) 4000 watt sec
D) 2000 watt sec

22. What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A) 10
B) 4
C) 5
D) 2.4

23. What is the square root of decimal number 550.37?

A) 22.46
B) 22.26
C) 23.46
D) 21.26

24. Convert decimal 0.000659 to fraction?

A) (659/100000)
B) (659/1000000)
C) (659/10000)
D) (659/1000)

25. What is the specific gravity of the metal, if the weighs 6.5 kgf in air and 3.5 kgf in water?

A) 1.166
B) 3.166
C) 6.166
D) 2.166

26. Convert 52% into fraction?

A) (11/25)
B) (13/25)
C) (9/25)
D) (17/25)

27. What denotes letter M in MKS system?

A) Mile
B) Meter
C) Millimeter
D) Micron

28. What is termed as the quantity of matter contained in a body?

A) Volume
B) Mass
C) Specific gravity
D) Density

29. What is the resistance?
 I = 11.5 Amps
 V = 380 Volts
 R = _____Ohms

A) 43 ohms
B) 13 ohms
C) 33 ohms
D) 23 ohms

30. What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

A) 94.8 ohms
B) 97.8 ohms
C) 96.8 ohms
D) 95.8 ohms

31. Which law states that at constant termperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

A) Newton's law
B) Ohm's law
C) Hooke's law
D) Lenz's law

32. What are fundamental units?

A) Length, Mass, Volume
B) Length, Mass, Area
C) Length, Mass, Time
D) Length, Pressure, Volume

33. What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

A) Weight
B) Mass
C) Specific gravity
D) Density

34. Convert 0.456 decimal fraction into percentage?

A) 0.0456
B) 0.456
C) 0.000456
D) 45.6

35. What is the square root of 529?

A) 33
B) 23
C) 12
D) 43

36. What is the square root of 0.017?

A) 0.001
B) 0.00001
C) 0.000001
D) 0.13

37. What is the LCM of 12, 18, 6, 36?

A) 36
B) 42
C) 12
D) 18

38. What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

A) 140 rpm
B) 180 rpm
C) 160 rpm
D) 120 rpm

39. Which is the unit of resistance?

A) Ampere B) Watt
C) Volt D) Ohm

40. How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

A) 2020 watts B) 2010 watts
C) 2030 watts D) 2000 watts

41. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

A) 1.2 W B) 3 W
C) 10 W D) 12 W

42. What is the ratio of 4 kg to 800 grams?

A) 08:04 B) 04:08
C) 02:04 D) 05:01

43. What is the decimal fraction of conversion of 18.5%?

A) 0.195 B) 0.175
C) 0.165 D) 0.185

44. Which is the unit electrical power?

A) Ohms B) Volts
C) Watts D) Ampere

45. Simplify: (17.49x5.2)/(6.5)

A) 13.99 B) 13.79
C) 13.89 D) 13.69

46. What is the density of aluminium?

A) 2.7 g/cm³ B) 4.7 g/cm³
C) 3.7 g/cm³ D) 5.7 g/cm³

47. How much is 8% of 40 kg?

A) 2.2 kg B) 4.2 kg
C) 3.2 kg D) 5.2 kg

48. What is the definition of ratio?

A) Inequality between two ratios B) Relation of two quantities of the different kind
C) Relation of two quantities of the same kind D) Equality between two ratios

49. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

A) 10 B) 25
C) 15 D) 6

50. What is the flow of electrons in any conductor?

A) Power B) Voltage
C) Current D) Resistance

51. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

A) 24 days B) 20 days
C) 26 days D) 22 days

52. How many hours will take for a 100 watts bulb to consume 1 kwh energy?
 W = 1 Kwh
 P = 100 Watts
 t = _____Hours

A) 24 hours B) 10 hours
C) 18 hours D) 12 hours

53. Which is the example for statically induced emf?

A) Transformer B) Motor
C) Generator D) Refrigerator

54. Divide (20/31)/(15/62)

A) 2(1/3) B) 2(2/3)
C) 2(3/2) D) 2(4/3)

55. What percentage of 80 is 20?

A) 0.8 B) 0.2
C) 0.25 D) 0.4

56. Which is the example for dynamicallly induced Emf?

A) Motor bike B) Car
C) Generator D) Motor

57. Which property of a substance is opposing the flow of electric current?

A) EMF B) Current
C) Voltage D) Resistance

58. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

A) Cu 98% B) Cu 92%
C) Cu 94% D) Cu 96%

59. What is the density (r) in g/cm3 of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm,³?

A) 6.9 g/cm³ B) 7.2 g/cm³
C) 6.6 g/cm³ D) 7.5 g/cm³

60. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A) 17 ohms B) 11 ohms
C) 7 ohm D) 1/17 ohms

61. What is the mass in gram, if a force of 15 dyres acting on a mass m producing an acceleration of 2.5 cm/sec²?

A) 6 grams
B) 9 grams
C) 7 grams
D) 8 grams

62. What is the product of 0.003 x 0.5?

A) 0.15
B) 0.00015
C) 0.015
D) 0.0015

63. What are the two classifications of system of units?

A) Gravitational and non-gravitational
B) Metric and International
C) Fundamental and derived
D) British and Metric

64. What is the voltage of the immersion heater?
P = 500 watts
 I = 2.27 Amps
 V = _____Volts

A) 220.3 volts
B) 210.3 volts
C) 230.3 volts
D) 200.3 volts

65. What is the improper fraction for the given mixed fraction ? 7 x (3/7)

A) "7/52"
B) "28/7"
C) (52/7)
D) "7/28"

66. What is the volume of mercury in cm3, if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm3?

A) 136 cm³
B) 10.0 cm³
C) 13.6 cm³
D) 10.6 cm³

67. What is the current Flow in the bulb?
 P = 550 watts
 R = 22 Ohms
 I = _____Amps

A) 3 Amps
B) 5 Amps
C) 2 Amps
D) 4 Amps

68. What is called mass per unit volume of a substances?

A) Volume
B) Weight
C) Density
D) Mass

69. What is the power required?
 I = 0.455 Amps
 R = 484 Ohms
 P = _____Watts

A) 98.2 watts
B) 99.2 watts
C) 101.2 watts
D) 100.2 watts

70. What is the weight force of a car has a mass of 800 kg?(Take g = 9.81m/sec)

A) 7487 Newton
B) 7847 Newton
C) 7748 Newton
D) 7848 Newton

71. What is the current?
 R = 50 Ohms
 220 Volts
 I =_____Amps

A) 4.4 Amps
B) 4.1 Amps
C) 4.2 Amps
D) 4.3 Amps

72. Simplify: (3/4)+(2/5)-(5/20)

A) (9/10)
B) (3/10)
C) (12/10)
D) (13/10)

73. What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

A) 9.4 watts
B) 9.6 watts
C) 9.8 watts
D) 9.2 watts

74. Which law states about electromagnetic induction?

A) Lenz's law
B) Hooke's law
C) Ohm's law
D) Faraday's law

75. What is the power if an emf of one volt causes a current flow of 1ampere?

A) 1 HP
B) 1 kilowatt
C) 1 watt
D) 1 Kilowatt hour

76. Which is equal to electric power?

A) R²I watts
B) IRA
C) RI
D) I²R watts

77. What is the HCF of 18, 42, 24?

A) 24
B) 6
C) 18
D) 2

78. Which is mineral insulator

A) Porcelain
B) Mica
C) Glass
D) Quartz